Applicant: GIESHOFF

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**Amendments to the Claims:** 

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended): An exhaust-gas purification system for the exhaust gases of an

internal combustion engine (2) of a motor-vehicle comprising an oxidation catalyst (7) and a

downstream particulate filter (5), wherein a converter shell (6) is arranged in the exhaust-gas

system closely downstream of the engine outlet and includes the oxidation catalyst (7) and a

hydrocarbon adsorber (4) having up to 1g/L platinum on the hydrocarbon adsorber and the

hydrocarbon adsorber is arranged closely upstream of the particulate filter (5) in the underfloor

area of the motor vehicle and wherein (i) the particulate filter is a wall flow filter, which is

coated with an oxidation catalyst on an entry side thereof, and (ii) the hydrocarbon adsorber and

the wall flow filter are both disposed in one converter housing.

2. (Previously presented): The exhaust-gas purification system according to claim 1, wherein

a zeolitic coating on a honeycomb body is used as the hydrocarbon adsorber, which includes a

mixture of the zeolites ZSM5, DAY and comprises platinum at a concentration of 0.1g/L of

honeycomb body volume as a catalytically active component.

3. (Previously presented): The exhaust-gas purification system according to claim 2, wherein

the oxidation catalyst includes a catalytically active coating of platinum-activated aluminum

oxide or aluminum silicate on a honeycomb body.

4. (Canceled)

5. (Previously presented): The exhaust-gas purification system according to claim 1, wherein

the hydrocarbon adsorber comprises a storage capacity for hydrocarbons in the range between 1

and 50 g.

6. (Previously presented): A method of operating the exhaust-gas purification system, of

claim 1, wherein during operating phases of the engine with exhaust-gas temperatures at the

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engine outlet below 200 °C, the hydrocarbons emitted by the engine and not converted by the

oxidation catalyst are adsorbed at the hydrocarbon adsorber and the emitted soot particles are

deposited on the particulate filter, while during operating phases of the engine with exhaust-gas

temperatures at the engine outlet of more than 200 °C, the emitted hydrocarbons are converted

by the oxidation catalyst, and the particulate filter is regenerated from time to time, wherein for

initiating the regeneration, the exhaust-gas temperature is raised by engine modifications at the

site of the hydrocarbon adsorber above the desorption temperature of the hydrocarbons and the

stored hydrocarbons are desorbed and catalytically burned at the oxidation coating of the

particulate filter to support the regeneration.

7. (Previously presented): The method according to claim 6, wherein the concentration of

hydrocarbons in the exhaust gas is raised by post-injecting hydrocarbons into the cylinders of the

internal combustion engine during the storage phases in order to increase the mass of stored

hydrocarbons.

8. (Canceled)